

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2003-194648

(43)Date of publication of application : 09.07.2003

(51)Int.Cl.

G01L 19/04
G01F 1/50
G01L 9/00
G05D 16/20

(21)Application number : 2001-399910

(71)Applicant : OMI TADAHIRO
TOKYO ELECTRON LTD
FUJIKIN INC

(22)Date of filing : 28.12.2001

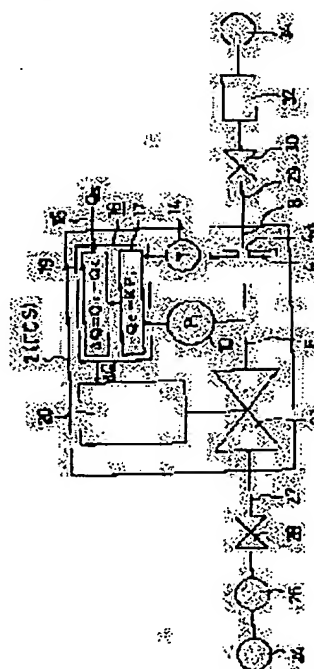
(72)Inventor : OMI TADAHIRO
SUGIYAMA KAZUHIKO
NISHINO KOJI
UNO TOMIO
NAKAMURA OSAMU
MATSUMOTO ATSUSHI
DOI RYOSUKE
IKEDA SHINICHI

(54) PRESSURE SENSOR, PRESSURE CONTROLLER, AND TEMPERATURE DRIFT CORRECTION DEVICE OF PRESSURE TYPE FLOW CONTROLLER

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a pressure sensor, a pressure controller and a flow controller capable of correctly detecting pressure regardless of temperature variation by automatically correcting the temperature drift of the pressure sensor.

SOLUTION: This temperature drift correction device of the pressure type flow controller, in which an upstream-side pressure sensor 10 for sensing upstream-side pressure P1 is installed between an orifice 4 and a control valve 22, and an orifice passing flow rate is controlled by opening and closing the control valve 22 while calculating the orifice passing flow rate by the upstream-side pressure P1, comprises a temperature sensor 14 for measuring a fluid temperature; a memory means 64 for storing the relationship between the fluid temperature T and the output drift of the pressure sensor 10; and a temperature drift correction means for calculating the output drift amount of the pressure sensor 10 from data of the memory means 64 when the fluid temperature T changes and for eliminating and correcting the output drift of the pressure sensor 10 by the calculated output drift amount. By this structure, the temperature drift of the pressure sensor can be automatically corrected to accomplish correct flow control.



LEGAL STATUS

[Date of request for examination] 17.12.2004
[Date of sending the examiner's decision of rejection]
[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]
[Date of final disposal for application]
[Patent number]
[Date of registration]
[Number of appeal against examiner's decision of rejection]
[Date of requesting appeal against examiner's decision of rejection]
[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office